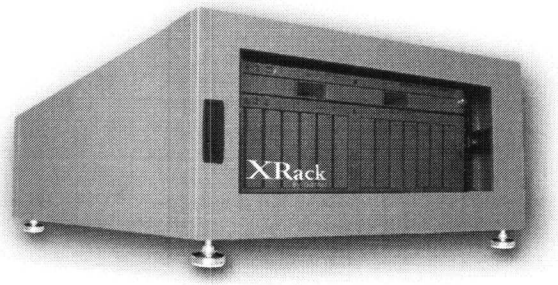
XRackPro Noise Reduction Enclosure Cabinet

Quick Start Installation & Owner's Manual

Model XR-NRE2-4U



XRackPro

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rev 092206

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Welcome

Thank you for your purchase of GizMac's XRack Noise Reduction Enclosure. GizMac prides itself in producing the highest quality accessories for the rackmount equipment market. Your satisfaction is of the utmost importance to us. Please take a few moments to review this manual and familiarize yourself with the XRackPro's simple installation procedures. If you have any questions or concerns, please call us (310) 320-5563 or email us at technicalsupport@GizMac.com and we will be glad to assist you.

Packing List

1-Xrack enclosure
Hardware Kit :
- 1 – Instruction Manual
- 8 - 10/32 Cage Nuts and Screws
- 1 – 2 inch diameter foam ring
- 1 - Plastic wire grommet (may be pre-installed)
- 2 - Keys for front and rear door latches
- 4- Heavy-duty Surface Safe Legs (may be pre-installed)

1- High-quality ball bearing fan units —pre-installed
4-Vertical Equipment Mounting Rails — pre-installed

Tools Required

#2 Phillips Screw Driver
Adjustable Wrench

Planning your Installation

To insure quick and easy installation of XRack and your equipment, it is recommended that you plan the allocation of space in the XRack and the location of the XRack itself.

Some points to consider:

1. It is generally recommended that equipment be installed toward the top of the unit, ideally with one rack space between equipment for maximum cooling efficiency.

2. RAID systems should generally be installed below servers.

3. Install power distribution units in the bottom rack position at the rear of the unit.

4. Uninterruptible power supplies (UPS) should generally be installed in the bottom most rack positions. Space should be left between a UPS and other equipment.

5. The XRack itself should be located so that there is a 1 inch minimum clear space on the bottom of the unit to allow for proper air flow into XRack's air intake vents.

6. The best acoustic noise reduction is achieved when XRack is not located close to walls. Walls will reflect and amplify the small amount of sound produced by the XRack fans.

7. Xrack's adjustable vertical mounting rails are pre-located ideally for maximum depth. The default settings keep the front of the rackmount equipment fairly close to the glass door for easy viewing of the status lights and to allow for maximum space in the rear for cabling. If you are installing equipment with a larger front profile, such as video decks with front connections, you may want to consider repositioning the vertical mounting rails rearward prior to installing server equipment.

8. It is recommended that blank vertical positions that remain after installation is complete be filled with optional blank filler panels (available at XRackPro.com). This ensures proper airflow into the front air intakes of the equipment.

9. If you plan to place equipment on top of XRack, it is recommended that you purchase an optional Equipment Isolation Mat (available at XRackPro.com). This specially designed mat protects the finish of XRack and isolates potentially damaging vibrations from occurring between the XRack and your equipment.

10. Installation of equipment into XRack is much easier with the aid of an assistant.

IMPORTANT: Must Be Completed First

Installing Leveler Legs (Or Optional Caster Wheels)

Gently place XRack on a soft surface and turn it on its side

Remove the four leveler legs and 4 leveler set nuts from hardware kit; screw one nut about one inch down onto each leveler leg

Screw a leveler leg about an inch into each hole near the four corners of the enclosure

Level XRack by adjusting height of legs, leave **at least** a 1 inch gap between surface and bottom of XRack, tighten each leveler nut against the underside of XRack

Installation

Before installing any units into the XRack, please visually inspect your XRack.

Step 1: Opening the XRack

- Open the front and rear doors by pressing in on the bottom of the latch over the keyhole, this releases the door latch. Pull to open.

- Remove the hardware kit from the inside of the XRack.

Step 2: Adjusting the Vertical Mounting Rails

NOTE: Take the time to ascertain that the positioning of the vertical mounting rails allows sufficient clearance for these devices. Some devices that require cable connections in the front may require the vertical mounting rails to be positioned further rearward. The rails are pre-positioned for deeper rackmount equipment (such as Apple's Xserve server).

- If necessary, loosen the two retaining bolts securing each of the vertical rails and slide the rails into the proper position and retighten the retaining bolts.
- If you move the rails, ensure that they are repositioned parallel to each other (i.e., the same distance from the front or rear of the XRack).

Step 3: Preparing Mounting Positions

NOTE: XRack ships with 8 cage nuts and screws, used to mount equipment to the vertical mounting rails. Determine the total number of cage nuts and screws needed for installation of all equipment and optional filler panels. You may need to purchase additional cage nuts and screws (available at www.XRackPro.com).

NOTE: The XRack cage nuts accept a 10/32 screw. Apple Xserve and Xserve RAID ship with10/32 screws and you must use Apple's 10/32 screws in the front mounting positions. Apple's screw heads are uniquely small to accommodate the faceplate of the Xserve. The screws supplied with XRack can be used in all other locations.

- Determine the location of all equipment to be installed, including the Power Distribution Unit (PDU) and any optional filler panels.
- Note how many screws are required for each unit. Use the vertical rail markings to allocate space. Each unit installed should occupy one or more vertical mounting spaces as marked.
- Press the cage nuts in place into each location that a screw will be used to secure equipment. The cage nuts install by firmly pressing them into place from the inside out on the vertical mounting rails. All four rails are numbered to ensure that you achieve proper alignment of mounting positions.

Step 4: Installing Equipment

- Install equipment into the XRack. The XRack conforms to EIA/NEMA standards for 19" wide rack mounting equipment. Follow manufacturer instructions for each piece of equipment for rack mounting in a four-post 19" rack. DO NOT CONNECT ANY CABLES YET.

Step 5: Installing the Power Distribution Unit (if included or purchased separately)

NOTE: The Power Distribution Unit (PDU) is not a surge protection device or a line filter. It is a passive power strip. It is highly recommended that all computer equipment be connected to a high-quality line-conditioning surge-suppression device or Uninterruptible Power Supply (UPS). The PDU has several power outlets; one will be used for XRack's cooling fans.

- Install the Power Distribution Unit. Secure with 4 screws.

Step 6: Routing Cables

NOTE: XRack includes 1 large knockout at the rear of the unit (bottom). This knockout allows you to run power and data cables out of the XRack. A plastic grommet is included (and may be pre-installed at the factory) for this opening.

Additionally, XRack includes 1 foam ring that resembles a donut; they are used to seal the knockout opening around exiting wires to help maintain the sound dampening qualities of the XRack. The plastic grommet protects exiting wires from contact with the metal edge of the knockouts. The foam rings and plastic grommets are used together.

- Run required cables through the holes, including the power cord for the PDU if installed.
- Make all cable connections desired to your server equipment.
- Wrap the foam ring around the bundle of cables exiting the XRack on the outside and press the foam ring into the plastic grommet. Be certain it is fully seated.
- Connect the XRack cooling fan power cord (located on the rear door) to the UPS or PDU (if installed), or run it through an opening to the outside. It is required that the XRack unit be plugged into an Uninterruptible Power Supply if used.

Step 7: Closing and Securing the XRack

NOTE: The front and rear doors have key locking latches; the XRack uses hidden hinges to help prevent unauthorized access.

- Close the front and rear door, press the latch closed and optionally lock the latches with the keys provided.

IMPORTANT: Before Using...Legs (or Wheels) Must Be Installed With 1 Inch Minimum Airflow Gap Between Bottom of Legs (or Wheels) and Bottom of XRack Chassis

Warranty

The GizMac XRack has a one-year limited warranty on electrical components and a lifetime warranty on the enclosure for defects in materials and workmanship. For complete warranty information please visit our website at XRackPro.com.

Thank you!

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